

CLAIMS

1.) Autonomous Electromagnetic System of Control for Boot Binding to a Snowboard or Ski or similar, which essentially is composed of:

- some rechargeable batteries, some electric chargers and some electric switches, wherein each one of them can be positioned in any point selected between the sportspersons' clothing, the helmet, a backpack, a belt, a fannypack, the gloves, boots, and for some of them even the boards themselves.
- some electromagnets or electromagnetic grippers located in the boots;
- some means of transmission of commands for opening and closing said switches to activate and deactivate said electromagnets or electromagnetic grippers, wherein said means of transmission could be electric cables, electromagnetic waves, or infrared rays; and
- a board or boards with its top side totally covered with ferromagnetic material

wherein the fastening of the boots on the mentioned board or boards is executed by electromagnetic forces that join said electromagnets or electromagnetic grippers to the upper face of said board or boards supplied with said ferromagnetic material, all of which facilitates the possibility to separate the boots from the board or boards quickly, comfortably, remotely and autonomously, without the existence of an automatic system that allows the board or boards to be released without the sportspersons' will.

2.) Autonomous Electromagnetic system of control for Boot binding to a Snowboard in accordance to the claim 1, which comprises:

- some rechargeable batteries, that can be located in the belt of the sportspersons' clothing, in a helmet or in a backpack;
- some electric or solar chargers (2) of said rechargeable batteries, some manual switches(23) and some connectors(3), all of them located in the belt(1);
- some first connection elements that fit to their respective connectors(3), two connectors(4) and two conductor cables(15) integrated in the trousers fabric that join each first connection element with one of the said connectors(4), located in the trousers(7);

- some second connection elements(4b) that fit to their respective connector(4), a cable(20) and electromagnets(6) in each boot(5), whereby the cables(20) serve as junction between said second connection elements and the electromagnets(6); and
- a snowboard(22) with its top side totally covered with ferromagnetic material(16),

wherein the fastening of the boots(5) on said board(22) is produced by electromagnetic forces whose activation/deactivation is controlled manually by the manual switches(23) located in the belt(1).

3.) Autonomous Electromagnetic control system for Boots to a Snowboard in accordance with the claim 1 which comprises:

- a voice recognition equipment(14) and a command transmitter(13);
- some rechargeable batteries(9), a charger-valve set(10), a receptor-switch(11), electromagnets(6), some connections(21) junction of the rechargeable battery (9) with the charger-valve (10), some connections(21a) junction of rechargeable battery (9) with the receptor-switch(11), some connections(21b) junction of receptor-switch(11) with the electromagnets(6) and the union connection between mentioned electromagnets(6), and
- a snowboard(22) with its top side totally covered with ferromagnetic material(16),

wherein the binding of the boots(5') on the said board(22) is produced by means of electromagnetic power whose activation/deactivation is controlled by voice commands detected by the voice recognition equipment(14), generated and transmitted by the transmission of orders(13) and received, decodified and executed by the receptorswitch(11) of each boot(5').

4.) Autonomous Electromagnetic System of Control for Bootbinding on a Snowboard in accordance with the claim 3 further comprising:

- switch-transmitters(12) integrated in the gloves of the sportsperson,

wherein the fastening of the boots(5') onto said board(22) is carried out through electromagnetic forces whose activation/deactivation is further controlled by

commands generated and transmitted by the switch-transmitters(12)of the gloves and received, decoded and executed by the receptor-switch(11) of each boot(5').

5.) Autonomous Electromagnetic system of control for Bootbinding on a Snowboard in accordance with claim 2, wherein

- the electromagnets are substituted by electromagnetic grippers, and the binding of the boots(5) onto said board(22) is carried out by means of magnetic forces whose deactivation/activation is manually controlled by the manual switches(23) located in the belt(1).

6.) Autonomous Electromagnetic system of control for Bootbinding on a Snowboard in accordance with the claim 3, wherein

- the electromagnets are substituted by electromagnetic grippers, and the fastening of the boots(5')on the said board(22) is carried out through magnetic energy whose deactivation/activation is controlled by voice commands detected by the voice recognition equipment(14), generated and transmitted by the command transmitter(13) and received, decoded and executed by the receptor-switch(11) of each boot(5').

7.) Autonomous Electromagnetic System of Control for Bootbinding on a Snowboard in accordance with claim 4, wherein

- the electromagnets are substituted by electromagnet grippers, and the binding of the boots(5') on the said board(22) is carried out by magnetic force means whose deactivation/activation is controlled moreover by commands generated and transmitted by the switch-transmitters(12) of the gloves and received, decoded and executed by the receptor-switch(11)of each boot(5').

8.) Autonomous Electromagnetic System of control for Bootbinding on Skis in accordance with claim 1, which comprises,

- Some rechargeable batteries that can be located in the belt of the sportsperson, in a helmet or in a backpack;
- Some electric or solar chargers (2)of mentioned rechargeable batteries, manual switches(23) and some connectors(3), all of which are located in the belt(1);
- some first connection elements that fit to the respective connectors(3),two connectors(4)and two conductor cables(15)integrated in the trousers fabric

that joins each said first connection element to one of the said connectors(4), located in the trousers(7);

- some second connection elements (4b) that fit to the respective connector(4), cables(20) and electromagnets(6) on each boot(5), wherein the cables serve as junction (20) between mentioned second connection elements and the electromagnets(6); and
- two skis(25), each one of them totally covered on the top side with ferromagnetic material(26),

wherein the fastening of the boots(5) on the said skis(25) is carried out by means of electromagnetic forces whose activation/deactivation is controlled manually through manual switches(23) located in the belt(1).

9.) Autonomous Electromagnetic System of Control for Bootbinding on Skis in accordance with claim 1, which comprises:

- a voice recognition equipment(14) and a command transmitter(13);
- some rechargeable batteries(9), a valve-charger set(10), a receptor-switch(11), electromagnets(6), some connections (21) junction of the rechargeable battery(9) to the valve-charger(10), some connections(21a) junction of the rechargeable battery (9) with the receptor-switch(11), some connections (21b) junction of the receptor-switch(11) to the electromagnets(6) and a joining connection between said electromagnets(6); and
- two skis(25), each one of them totally covered on its top side with ferromagnetic material(26),

wherein the binding of the boots(5') on the said skis(25) is carried out by means of electromagnetic force whose activation/deactivation is controlled through voice commands detected by the voice recognition equipment(14), generated and transmitted by the command transmitter(13) and received, decoded and executed by the receptor-switch(11) of each boot(5').

10.) Autonomous Electromagnetic System of Control for Bootbinding on Skis in accordance with claim 9, which comprises also

- several switch-transmitters(12) integrated in the sportspersons' gloves,

wherein the binding of the boots(5') on the mentioned skis(25) is carried out by means of electromagnetic force whose activation/deactivation is controlled by generated commands and transmitted through the switch-transmitters(12) of the gloves and received, decoded and executed by the receptor-switch(11) of each boot(5').

11.) Autonomous Electromagnetic System of Control for Bootbinding on Skis in accordance with claim 8, wherein

- the electromagnets are substituted by electromagnetic grippers, and the fastening of the boots(5) on the mentioned skis(25) is carried out through magnetic forces whose deactivation/activation is controlled manually through the manual switches(23) located in the belt(1).

12.) Autonomous Electromagnetic System of Control for Bootbinding on Skis in accordance with claim 9, wherein

- the electromagnets are substituted by electromagnetic grippers, and the fastening of the boots(5') on the mentioned skis(25) is produced by magnetic forces whose activation/deactivation is controlled by voice commands detected by the voice recognition equipment(14), generated and transmitted through the command transmitter(13) and received, decoded and executed by the receptor-switch(11) of each boot(5').

13.) Autonomous Electromagnetic System of Control for Bootbinding on Skis in accordance with claim 10, wherein

- the electromagnets are substituted by electromagnetic grippers, and the binding of the boots(5') on the mentioned skis(25) is produced through magnetic force means whose deactivation/activation is controlled by commands generated and transmitted by the switch-transmitters(12) of the gloves and received, decoded and executed by the receptor-switch(11) of each boot(5')